

**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

Date of Report: January 8, 1996  
Date Received: December 28, 1995  
Project: Metro Self Monitor, PO M51766  
Date Samples Extracted: January 4, 1996  
Date Extracts Analyzed: January 5, 1996

**RESULTS FROM THE ANALYSIS OF THE PROCESS WATER SAMPLE  
FOR CHROMIUM, COPPER, NICKEL, AND ZINC**

**Samples Processed Using Method 3005**

Results Reported as mg/L (ppm)

<u>Sample ID</u>	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M51766	0.69	0.71	0.41	0.07
Method Blank	<0.05	<0.05	<0.05	<0.05

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Date of Report: January 8, 1996

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### QUALITY ASSURANCE RESULTS FOR CHROMIUM, COPPER, NICKEL, AND ZINC Samples Processed Using Method 3005

Laboratory Code: 65466 (Duplicate)

Analyte:	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.69	0.70	1	0-20
Copper	mg/L (ppm)	0.71	0.83	16	0-20
Nickel	mg/L (ppm)	0.41	0.43	5	0-20
Zinc	mg/L (ppm)	0.07	0.11	44 a	0-20

Laboratory Code: 65466 (Matrix Spike)

Analyte:	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	Relative Percent Difference
Chromium	mg/L (ppm)	5	0.69	104	104	80-120	0
Copper	mg/L (ppm)	5	0.71	95	96	80-120	1
Nickel	mg/L (ppm)	10	0.41	106	104	80-120	2
Zinc	mg/L (ppm)	5	0.07	112	111	80-120	1

Laboratory Code: Spike Blank

Analyte:	Reporting Units	Spike Level	% Recovery MS	% Recovery MSD	Acceptance Criteria	Relative Percent Difference
Chromium	mg/L (ppm)	5	107	108	80-120	1
Copper	mg/L (ppm)	5	100	102	80-120	2
Nickel	mg/L (ppm)	10	108	109	80-120	1
Zinc	mg/L (ppm)	5	114	114	80-120	0


a - The analyte was detected at a level less than five times the detection limit. The RPD results may not provide reliable information on the variability of the analysis.

13.4

ANS AI  
12.28.95  
1:30


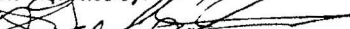
Send Report To:

SITE NO.	PROJECT NAME	PURCHASE ORDER #
7238	metro self monitor	m 51766

SAMPLERS (signature)	PROJECT LOCATION
	3200 6th Ave S.

REMARKS	SAMPLE DISPOSAL INFORMATION
	<input type="checkbox"/> Dispose after 30 days <input checked="" type="checkbox"/> Return Samples <input type="checkbox"/> Call for Instructions

[illegible]

SIGNATURE	PRINT NAME	COMPANY	Date	Time
Relinquished by: 	GERALD Thompson	A.C.W	12/28/95	1:22 PM
Received by: 	Cathy DOWNING	FBI	12/28/95	1:22
Relinquished by:				
Received by:				



**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

Andrew John Friedman  
James E. Bruya, Ph.D.  
(206) 285-8282

3012 16th Avenue West  
Seattle, WA 98119-2029  
FAX: (206) 283-5044

January 8, 1996

Gerry Thompson, Project Manager  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

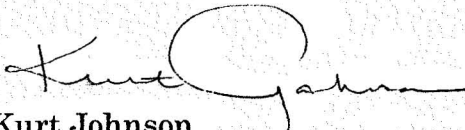
Dear Mr. Thompson:

Enclosed are the results from the testing of material submitted on December 28, 1995 from your Metro Self Monitor, PO M51766 project.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Kurt Johnson  
Chemist

keh  
Enclosures  
FAX: 382-7335  
ACU0108R.DOC

**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

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January 8, 1996

**INVOICE # 96ACU0108-1  
DUPLICATE COPY**

Accounts Payable  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

RE: Project Metro Self Monitor, PO M51766: Results of testing requested by  
Gerry Thompson, Project Manager for material submitted on December 28,  
1995.

1 process water sample analyzed for Chromium,  
Copper, Nickel, and Zinc @ \$65 per sample

\$ 65.00

Amount Due .....

\$ 65.00